NEW CLAIMS

1. A process for improving processability of mono- and multi-layer polymer shrink-films, comprising adding a photoinitiator to a polymeric composition of which said monolayer film or at least one layer of said multilayer film is made, wherein said composition does not include polymer cross-linking enhancers, extruding said composition, illuminating said extruded composition with ultraviolet radiation, to induce cross-linking within said layer or layers of the film, the amount of said photoinitiator and the intensity and duration of said illumination being such as to provide a gel content below 10%, and submitting said composition to an orientation treatment.

2. A process according to claim 1, wherein the orientation treatment is performed using the double-bubble technique.

3.A process according to claim 1, wherein the polymeric composition is selected in the group consisting of polyethylene, ethylene copolymers, and their mixtures.

4.A process according to claim 3, wherein the ethylene copolymers are selected in the group consisting of LLDPE, LDPE, m-LLDPE, EVA, EBA, ULDPE, and their mixtures.

5. A process according to claim 1, wherein the amount of photoinitiator is up to 1 weight percent of the composition to which it is added.

6. A process according to any one of the preceding claims, wherein the film to be produced is a monolayer film.

7. A process according to any one of the preceding claims, wherein the film is a multilayer film.

8. A process according to claim 7, wherein no photoinitiator is added to one or more of the layers.

9. A process according to claim 1, wherein the cross-linked material of one layer is chosen such that it provides strength and impermeability to the film.

10. A process according to claim 9, wherein the cross-linked material(s) of one or more external layer(s) are chosen such that they provide sealability to the film.

11. A process according to claim 1, wherein the orientation treatment is performed using the tenter technique.

12. A monolayer shrink-film, which does not include polymer cross-linking enhancers and is cross-linked to the extent that it comprises a gel content below 10%.

13. A multilayer shrink-film, which does not include polymer cross-linking enhancers, in which multilayer

shrink-film some of the layers are cross-linked to the extent that they comprise a gel content below 10%, and others are not cross-linked.